Pilots

The potentiality of the GeoSmartCity toolkit is demonstrated through the development of 11 operative and re-usable pilot cases in the frame of the two scenarios Green-Energy and Under-ground.

Pilot cases **Green Energy**:

- Reggio nell'Emilia (IT)
- Maroussi (GR)
- Oeiras (PT)
- Turku (FI)
- Girona (ES)

Pilot cases **Underground**:

- Comarca de Pamplona (ES)
- Genova (IT)
- Oeiras (PT)
- Flanders region (BE)
- South Moravia Region (CZ)
- Ruda Slaska (PL)

Partners

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GeoSmartCity

Open geo-data for innovative services and user applications towards Smart Cities

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CIP Pilot Actions

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www.geosmartcity.eu

Overview

Smart City management requires integration of geographic data from many and heterogeneous sources, spanning from pan-European open data sets (as from the Public Sector Information and the INSPIRE Directives) to local data with "home-made" semantics. In order to analyze and visualize geographic information (GI) through these data sets, it is necessary to integrate the data in terms of formats, access protocols, transformation and coordinate reference system, data harmonization.

The ICT-PSP European project **GeoSmartCity** establishes a cross-platform, able to publish open GI and to provide specialized services based on open standards services protocols. Starting by the availability of the open GI through open standards, the platform gives the possibility to integrate them with other public/private data in order to design the specialized services needed to implement the two addressed Smart City scenarios: **Green Energy** and **Underground**.

The result is a consistent repository of GI that can be spatially and semantically cross-analyzed to provide an accurate and up-to-date view of the respective problem domains.

Scenarios

GeoSmartCity fosters the creation of an added-value by the integration of urban open data with third-party data (open or restricted) as well as crowd-sourced data. Exploitation of heterogeneous (open) GI data is possible thanks to the connection of different consolidated standards (linked data, INSPIRE, Sensor data, GNSS), allowing open cross-sector interoperability between different data providers and domains and the consequent creation of a wide range of user-driven application scenarios. **GeoSmartCity** implements two scenarios, where 11 pilot cases are developed as example and model for other Smart City applications.

Green Energy Scenario:

To support public energy policy makers, to facilitate the management of renewable energy plants within cities, to promote buildings energy retrofit (buildings are responsible for the 40% of all energy consumption) in order to support the energy transition strategy, to reduce CO_2 emissions, and to develop local energy saving economy.
The Green Energy scenario intends to support the Covenant of Mayors.

Stakeholders and beneficiaries:

- Public Authorities
- Utilities, energy producers, brokers and vendors
- SMEs of energy sector
- Building designers, urban and energy planners
- Universities, Research Centers, training institutions
- Citizens and consumers

Covenant of Mayors
Committed to local sustainable energy

Underground Scenario:

To support integrated management of urban underground utility infrastructures in different sectors sharing the same work environment and background geo-information, produced and/or held by public bodies and fostering the private-public partnership in city infrastructure planning and management.
To integrate underground data with territorial data to search for assets located in risk zones (hydrogeologic, hydraulic, sysmic…), needing for specific monitoring and control.

Digital Agenda for Europe 2010-2020

Stakeholders and beneficiaries:

- Municipalities, Public Administrations
- Utility companies (gas, water, energy, telecommunications)
- Territorial companies (e.g. companies in charge for digging and road maintenance)
- Environmental Agencies
- Civil Protection
- Citizens